

Joint Venture

Silicon Valley Presents



2010 Updates



Introduction

California Building Standards Commission

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Today's Objectives

- CALGreen Review
- 2010 CALGreen Supplement
 - Overview of Mandatory Code Provisions
 - Commissioning
- Graywater & Rainwater Update
- Upcoming Code Cycle
- Q&A



Why CALGreen

- Uniformity and Consistency
 - Jurisdictions adopting many different programs
 - Works with other California codes
 - Sustainability
- Governor's Directive



Adopting State Agencies

- The Department of Housing and Community Development (HCD)
- Division of the State Architect (DSA)
- Office of Statewide Health Planning and Development (OSHPD)
- California Building Standards Commission (CBSC)



2007/2008 Legislative Cycle

- Governor's message

- Supports the development of green building standards and shared the goals of this bill
- The Building Standards Commission was created to ensure an open public adoption process allowing experts to develop standards and periodic updates to the building codes
- Allowing private entities, such as proposed in this bill, to dictate California's building standards usurps the state's authority to develop and adopt those standards
- Directed specified state agencies with authority to develop green building standards for residential, commercial, and public building construction for the 2010 code adoption process



Next Steps

- The California Building Standards Commission directed CBSC staff to develop green building standards for new construction of buildings under its authority.
- The appointed members of the CBSC also requested HCD and the other proposing agencies to work together to develop green building standards for new construction of buildings under their respective authority.
- HCD responded to the Governor's message and joined other state agencies in development of the California Green Building Standards Code now known as CALGreen.



Result – California Green Building Standards Code or CALGreen

- Enforced like other California codes
- Does not require third party inspection or verification
- Maintains current relationship between enforcing agencies and builders
- Uniformity and Consistency
 - Jurisdictions using different programs
 - Coordinated with other California codes



CALGreen Milestones

- Initial Voluntary Standards
 - Effective August 1, 2009
- Became Mandatory
 - Effective January 1, 2011
- **2010 Supplement**
 - **Effective July 1, 2012**
- 2013 Code Cycle
 - Effective January 1, 2014



Executive Order B-18-12

- Issued by Governor Brown on April 25, 2012:
 - [Effective immediately] Take actions to reduce greenhouse gas emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline.



2010 California Building Standards Codes

Title 24, CCR

- Part 1 California Administrative Code
- Part 2 California Building Code
- Part 2.5 California Residential Code
- Part 3 California Electrical Code
- Part 4 California Mechanical Code
- Part 5 California Plumbing Code
- Part 6 California Energy Code
- Part 7 Vacant
- Part 8 California Historical Building Code
- Part 9 California Fire Code
- Part 10 California Existing Building Code
- **Part 11** **California Green Building Standards Code**
- Part 12 California Referenced Standards Code



Code Format

- Chapter 1 Administration
- Chapter 2 Definitions
- Chapter 3 Green Building
- Chapter 4 Residential Mandatory Measures
- Chapter 5 Nonresidential Mandatory Measures
- Chapter 6 Reference Organizations and Standards
- Chapter 7 Installer and Special Inspector Qualifications
- Chapter 8 Compliance Forms and Worksheets
- Appendix A4 Residential Voluntary Measures
- Appendix A5 Nonresidential Voluntary Measures
- Appendix A6 Commissioning



California Green Building Standards Code

- **Chapter 1 - Administration**

Purpose

- Minimize impact of construction and improve construction practices

Scope

- Application
- Not intended to be identified as meeting the requirements of a point rated system

Local amendments based on findings

- Climate
- Topography
- Geology

Alternate Materials and Methods

Construction Documents

Application and State Agency Authorities



California Green Building Standards Code

- Chapter 2 - Definitions
 - If used in more than one location in the code a defined term will be located in Chapter 2. This is changing.
 - Italics, definitions and California amendments
 - Banners
 - CONDITIONED FLOOR AREA. [BSC, HCD]
 - Matrix Tables



California Green Building Standards Code

- Chapter 3 - Green Building
 - Scope
 - Newly constructed low rise residential buildings
 - Newly constructed non- residential buildings, alterations and additions
 - Mixed Occupancy Buildings
 - Shall comply with appropriate requirements for each separate occupancy type
 - Phased Projects
 - Voluntary Tiers
 - Tier 1 and Tier 2



California Green Building Standards Code

Chapter 4 - Residential Mandatory Measures

- Planning and Design- Division 4.1
- Energy Efficiency- Division 4.2
- Water Efficiency and Conservation- Division 4.3
- Material Conservation and Resource Efficiency- Division 4.4
- Environmental Quality- Division 4.5



California Green Building Standards Code

Chapter 5 - Nonresidential Mandatory Measures

- Planning and Design – Division 5.1
- Energy Efficiency – Division 5.2
- Water Efficiency and Conservation – Division 5.3
- Material Conservation and Resource Efficiency – Division 5.4
- Environmental Quality – Division 5.5
- **Additions and Alterations – Division 5.7**
 - **New- Effective July 1, 2012**



California Green Building Standards Code

Chapter 6 - Referenced Organizations and Standards

- This chapter lists the organizations and standards that are referenced in various sections of the code;

Chapter 7 - Installer and Special Inspector Qualifications

- HVAC systems installers shall be trained and certified in the proper installation of HVAC systems



California Green Building Standards Code

Chapter 8 - Compliance Forms and Worksheets

- Water Use Calculation Forms
- Construction Waste Management Forms
- Building Maintenance and Operation Forms
- Pollutant Control Forms
- Documentation and Verification Forms
- Recycled Content Calculator



2010 California Green Building Standards Code

RESIDENTIAL VOLUNTARY MEASURES

- Appendix A4
 - The measures contained in the appendix are not mandatory unless adopted by a city, county, or city and county. Appendix provisions may also be used voluntarily by designers, builders, and property owners.
 - *CALGreen* Tier 1 and Tier 2 are intended for adoption by cities, counties, and cities and counties to help California meet its goals for greenhouse gas emission reduction.



2010 California Green Building Standards Code

NONRESIDENTIAL VOLUNTARY MEASURES

- Appendix A5
 - The measures contained in the appendix are not mandatory unless adopted by a city, county, or city and county. Appendix provisions may also be used voluntarily by designers, builders, and property owners.
 - *CALGreen* Tier 1 and Tier 2 are intended for adoption by cities, counties, and cities and counties to help California meet its goals for greenhouse gas emission reduction.



2010 California Green Building Standards Code

NONRESIDENTIAL VOLUNTARY MEASURES

- Appendix A6:
 - Standards for compliance with Building Commissioning



California Green Building Standards Code

Nonresidential Mandatory Measures

Chapter 5:

- Planning and Design – Division 5.1
- Energy Efficiency – Division 5.2
- Water Efficiency and Conservation – Division 5.3
- Material Conservation and Resource Efficiency – Division 5.4
- Environmental Quality – Division 5.5
- **Additions and Alterations – Division 5.7**
 - **New- Effective July 1, 2012**



PLANNING AND DESIGN – Chapter 5-Division 5.1

Site Development

January 1, 2011

- Stormwater soil loss prevention plan
- Bicycle parking
- Designated parking

July 1, 2012

- Stormwater pollution prevention BMP *
- Delete UC reference *
- Clarify stall marking *

* Also applies to additions and alterations



PLANNING AND DESIGN – Chapter 5- Division 5.1

Site Development

January 1, 2011

- Light pollution reduction
 - Voluntary on April 20, 2011
- Grading and paving

July 1, 2012

- IESNA 2011 BUG Ratings mandatory as of July 1, 2012
 - Coordinate BMP with HCD *
- * Also applies to additions and alterations



ENERGY EFFICIENCY - Chapter 5- Division 5.2

Mandatory Measures are Regulated by the
California Energy Commission

- Mandatory provisions are found in Part 6 of Title 24



WATER EFFICIENCY AND CONSERVATION

Chapter 5- Division 5.3

Indoor Water Use

January 1, 2011

- Separate water submeters for high water use
- 20% reduction in indoor water use
 - Prescriptive and performance standards

July 1, 2012

- Separate water submeters for subsystems *
- Clarify prescriptive and performance methods, showerheads and tables *

* Also applies to additions and alterations



WATER EFFICIENCY AND CONSERVATION

Chapter 5- Division 5.3

Outdoor Water Use



January 1, 2011

- Water budget
- Separate submeter for outdoor potable water use
- Weather or soil moisture-based irrigation controllers

July 1, 2012

- No change *
- Minor clarifications *
- Minor clarifications *

* Also applies to additions and alterations



MATERIAL CONSERVATION and RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Water Resistance & Moisture Management

January 1, 2011

- Exterior weather protection by Title 24 or local ordinance
- Design for moisture control
 - Sprinklers
 - Entries and openings

July 1, 2012

- No change *
- No change *

* Also applies to additions and alterations



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Construction Waste Reduction, Disposal & Recycling

January 1, 2011

- Construction waste reduction of 50%
- Waste management plan required, or meet local ordinance

July 1, 2012

- No change *
- Same; add options for *
 - Waste management company
 - Waste stream reduction

* Also applies to additions and alterations



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Construction Waste Reduction, Disposal & Recycling

January 1, 2011

- Exception for isolated jobsites
- Recycle or reuse 100% of land clearing debris

July 1, 2012

- No change *
- Same; add exception for contaminated debris *

* Also applies to additions and alterations



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- Recycling by occupants



July 1, 2012

- No change *

* Also applies to additions and alterations



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- Commissioning: For new buildings 10,000 square feet and over:
 - Owner's or Owners Representative's Project Requirements (OPR)
 - Basis of Design (BOD)
 - Commissioning measures shown in the construction documents
 - Commissioning plan
 - Functional performance testing
 - Documentation and training
 - Commissioning report

July 1, 2012

- Minor clarifications
 - Exceptions:
 - Dry storage warehouses of any size
 - Areas under 10,000 square feet used for offices or other conditioned accessory spaces within dry storage warehouses
 - Tenant improvements under 10,000 square feet as described in Section 303.1.1.
- All building operating systems ~~and components~~ covered by Title 24, Part 6, as well as process equipment and controls, and renewable energy systems shall be included in the scope of the Commissioning Requirements.



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4 Building Maintenance and Operation

January 1, 2011

- Owner's Project Requirements (OPR). The expectations and requirements of the building shall be documented before the design phase of the project begins. At a minimum, this documentation shall include the following:
 - Environmental and Sustainability Goals.
 - Energy Efficiency Goals.
 - Indoor Environmental Quality Requirements.
 - Project program, including facility functions and hours of operation, and need for after hours operation
 - Equipment and Systems Expectations.
 - Building occupant and operation and maintenance (O&M) Personnel Expectations.

July 1, 2012

- No Changes



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- Basis of Design (BOD):
 - Heating, ventilation, air conditioning (HVAC) systems and controls
 - Indoor lighting system and controls
 - Water heating system
 - Renewable energy systems
 - Landscape irrigation systems
 - Water reuse systems

July 1, 2012

- Minor clarifications



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- Commissioning plan. Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned ~~and shall be started during the design phase of the building project .~~ The Commissioning Plan shall include the following:
 - **General project information**
 - **Commissioning goals**
 - **Systems to be commissioned. Plans to test systems and components shall include:**
- - a. An explanation of the original design intent
 - b. Equipment and systems to be tested, including the extent of tests
 - c. Functions to be tested
 - d. Conditions under which the test shall be performed
 - e. Measurable criteria for acceptable performance
 - **Commissioning team information**
 - **Commissioning process activities, schedules and responsibilities.** Plans for the completion of commissioning requirements listed in A5.410.4.4 through A5.410.4.6 shall be included

July 1, 2012

- Minor editorial changes



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- **Functional Performance Testing.** Functional performance tests shall demonstrate the correct installation and operation of each component, system, and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.
- **Documentation and training.** A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 514, and other related regulations.

July 1, 2012

- No changes



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- **Systems manual.** Documentation of the operational aspects of the building shall be completed within the Systems Manual and delivered to the building owner or representative and facilities operator. The Systems Manual shall include the following:
 - **Site information**, including facility description, history and current requirements
 - **Site contact information**
 - **Basic operations and maintenance**, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log
 - **Major systems**
 - **Site equipment inventory and maintenance notes**
 - **A copy of all special inspection verifications required by the enforcing agency or this code**
 - **Other resources and documentation if applicable**

July 1, 2012

- Minor editorial changes



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- **Systems operations training.** ~~The~~ A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
 - System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces)
 - Review and demonstration of servicing/preventive maintenance
 - Review of the information in the Systems Manual
 - Review of the record drawings on the system/equipment
- **Commissioning report.** ~~A complete report of commissioning process activities undertaken through the design, and construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or representative.~~
- Note: Guidance on implementation and enforcement of commissioning requirements, including sample compliance forms and templates, may be found in Appendix A6, Division A6.1, of this code.

July 1, 2012

- Minor changes



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4 Building Maintenance and Operation

January 1, 2011

- Testing and adjusting. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet.
- Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include ~~at a minimum~~, as applicable to the project:
 - HVAC systems and controls
 - Indoor and outdoor lighting and controls
 - Water heating systems
 - Renewable energy systems
 - Landscape irrigation systems
 - Water reuse systems

July 1, 2012

- Minor editorial changes



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4 Building Maintenance and Operation

January 1, 2011

- Procedures
 - Perform testing and adjusting procedures in accordance with manufacturer's specifications and industry best practices and applicable national standards on each system ~~as determined by the building official.~~

HVAC balancing:

- In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, balance the system ~~shall be balanced~~ in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; ~~or~~ Associated Air Balance Council National Standards or as approved by the ~~building official~~ enforcing agency.

July 1, 2012

- Minor editorial changes



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.
- Operation and maintenance manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O&M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 514, and other related regulations.
- Inspections and reports. Include a copy of all special inspection verifications and reports required by the enforcing agency.

July 1, 2012

- No changes



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- Building commissioning for new buildings 10,000 s.f. and over

July 1, 2012

- Minor clarifications; add exceptions for
 - Dry warehouses
 - Some tenant improvements
 - Appendix A6 for Sample Compliance Forms & Templates



MATERIAL CONSERVATION AND RESOURCE EFFICIENCY -

Chapter 5- Division 5.4

Building Maintenance and Operation

January 1, 2011

- Testing and adjusting for buildings less than 10,000 s.f.
 - HVAC balancing

July 1, 2012

- Same with minor clarifications *

* Also applies to additions and alterations



ENVIRONMENTAL QUALITY –

Chapter 5- Division 5.5

Pollutant Control

January 1, 2011

- Fireplaces
- Temp. const. ventilation (Voluntary)
- Covering of duct openings and protection of equipment during construction

July 1, 2012

- No change *
- If HVAC is used for temp. const. ventilation (replace filters)*

- Minor clarifications *
- * Also applies to additions and alterations



ENVIRONMENTAL QUALITY –

Chapter 5- Division 5.5

Pollutant Control

January 1, 2011

- Indoor air quality
 - Finish materials
 - Filters
 - Environmental tobacco smoke

July 1, 2012

- Minor clarifications *
 - Referenced standards
 - Exception for small, H.E. ductless units
 - Clarification of authority to regulate

* Also applies to additions and alterations



ENVIRONMENTAL QUALITY –

Chapter 5- Division 5.5

January 1, 2011

- Indoor moisture control (other codes)
- Indoor air quality (Energy Code)
 - Ventilation
 - CO₂ monitoring

July 1, 2012

- No change *
- Editorial changes *

* Also applies to additions and alterations



ENVIRONMENTAL QUALITY –

Chapter 5- Division 5.5

January 1, 2011

- Environmental Comfort
 - Exterior noise transmission
 - Interior sound
- Outdoor air quality
 - Ozone depleting chemicals

July 1, 2012

- Significant changes *
 - Align with HCD in CBC and general plans; added performance & prescriptive methods
 - Minor change
- No change *

* Also applies to additions and alterations



2010 California Green Building Standards Code

NONRESIDENTIAL VOLUNTARY MEASURES

- Appendix A5
 - The measures contained in the appendix are not mandatory unless adopted by a city, county, or city and county. Appendix provisions may also be used voluntarily by designers, builders, and property owners.
 - *CALGreen* Tier 1 and Tier 2 are intended for adoption by cities, counties, and cities and counties to help California meet its goals for greenhouse gas emission reduction.



NONRESIDENTIAL VOLUNTARY MEASURES

To achieve CALGreen Tier 1 or Tier 2, one must comply with the following:

- Meet all mandatory requirements;
- Exceed 2008 Energy Efficiency Standards by 15% or 30%;
- Employ additional voluntary measures in all the following areas:
 - Parking for clean air vehicles
 - Cool roofs
 - Reduction of indoor and outdoor water use
 - Construction waste diversion
 - Use of materials with recycled content
 - Installation of low-emitting resilient flooring and thermal insulation; and



NONRESIDENTIAL VOLUNTARY MEASURES

To achieve CALGreen Tier 1 or Tier 2, one must comply with the following:

- Comply with additional elective measures as follows:
 - 5 electives for Tier 1
 - 15 electives for Tier 2
- Application Checklist
 - Mandatory provisions
 - Provisions required for compliance with tiers



Category	Environmental Performance Goal	Tier 1	Tier 2
All	Minimum Mandatory	Meet all of the provisions of Chapter 5	Meet all of the provisions of Chapter 5
Planning and Design	Designated Parking for Fuel Efficient Vehicles	10 percent of total spaces	12 percent of total spaces
	Cool Roof to Reduce Heat Island Effect	Roof Slope < 2:12 SRI 64 Roof Slope > 2:12: < 5 lb/s.f. SRI 16 ≥ 5 lb/s.f. SRI 10	Roof Slope < 2:12 SRI 78 Roof Slope > 2:12: < 5 lb/s.f. SRI 23 ≥ 5 lb/s.f. SRI 30
		1 additional Elective from Division A5.1	3 additional Electives from Division A5.1
Energy Efficiency	Energy Performance	Exceed 2010 CA Energy Code by 15 percent	Exceed 2010 CA Energy Code by 30 percent
Water Efficiency and Conservation	Indoor Water Use	30 percent Savings	35 percent Savings
	Outdoor Water Use	Not exceed 60 percent of ETo times the landscape area	Not exceed 55 percent of ETo times the landscape area
		1 additional Elective from Division A5.3	3 additional Electives from Division A5.3
Material Conservation and Resource Efficiency ²	Construction Waste Reduction	At least 65 percent reduction	At least 80 percent reduction
	Recycled Content	Utilize recycled content materials for 10 percent of total material cost	Utilize recycled content materials for 15 percent of total material cost
		1 additional Elective from Division A5.4	3 additional Electives from Division A5.4
Environmental Quality	Low-VOC Resilient Flooring	80 percent of flooring meets VOC limits	90 percent of flooring meets VOC limits
	Low-VOC Thermal Insulation	Comply with VOC limits	Install no-added formaldehyde insulation & comply VOC limits
		1 additional Elective from Division A5.5	3 additional Electives from Division A5.5
Additional Measures	Added measures shall be achieved across at least 3 categories	1 Additional Elective	3 Additional Electives
Approximate Total Measures		14	24

→ **5.408.3 Construction waste reduction of at least 50%.** [BSC, DSA-SS] Recycle and/or salvage for reuse a minimum of 50% of the non-hazardous construction and demolition debris, or meet a local construction and demolition waste management ordinance, whichever is more stringent. Calculate the amount of materials diverted by weight or volume, but not by both.

Exceptions:

1. Excavated soil and land-clearing debris
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.

5.408.4 Excavated soil and land clearing debris. [BSC, DSA-SS] 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

SECTION A5.408

CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING

→ **A5.408.3.1 Enhanced construction waste reduction** [BSC]. Divert to recycle or salvage non-hazardous construction and demolition debris generated at the site in compliance with one of the following:

- Tier 1 At least a 65% reduction.
- Tier 2. At least an 80% reduction.

A5.408.3.1.1 Verification of compliance. [BSC] A copy of the completed waste management report shall be provided.

DRAFT

APPLICATION CHECKLIST FOR BSC	Mandatory	Voluntary CALGreen Tier 1 CALGreen Tier 2		
CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING				
5.408.1 Construction waste diversion. Establish a construction waste management plan or meet local ordinance, whichever is more stringent.	<input checked="" type="checkbox"/>			
5.408.2 Construction waste management plan. Submit plan per this section to enforcement authority.	<input checked="" type="checkbox"/>			
5.408.2.1 Documentation. Provide documentation of the waste management plan that meets the requirements listed in section 5.408.2 items 1 thru 4, and the plan is accessible to the enforcement authority. 5.408.2.2 Isolated jobsites. The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries of the diversion facility.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.408.3 Construction waste. Recycle and/or salvage for reuse a minimum of 50% of non-hazardous construction and demolition debris or meet local ordinance, whichever is more stringent. Exceptions: <ol style="list-style-type: none"> Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working <div> A5.408.3.1 Enhanced construction waste reduction. Divert to recycle or salvage non-hazardous construction and demolition debris generated at the site in compliance with one of the following: <div> <div>Tier 1. At least a 65% reduction.</div> <div>Tier 2. At least an 80% reduction.</div> </div> </div> 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
A5.408.3.1.1 Verification of compliance. A copy of the completed waste management report shall be provided. Exceptions: <ol style="list-style-type: none"> Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 	<input checked="" type="checkbox"/>			

California Building Standards Commission

- Proposed Regulations
 - Anticipated Effective Date January 2014
 - Graywater
 - Rainwater Catchment



California Building Standards Commission

- Codes Online: www.bsc.ca.gov
 - Newly reformatted CBSC website for easier access to code information
 - Rulemaking Process
 - Code Cycles
 - Current Codes
 - Guidebooks and other resources
 - Information Bulletins
 - Meeting Notices



Office of Governor
Edmund G. Brown Jr.

Visit his Website



SCSA Secretary
Anna Caballero

Visit SCSA Website



BSC Executive Director
Jim McGowan



Welcome to the California Building Standards Commission (CBSC) website! Click [here](#) for helpful tips on how to navigate the CBSC website.

The CBSC is responsible for the administration of California's building codes (California Code of Regulation, Title 24), which includes the adoption, approval, publication, and implementation of codes and standards.

California's building codes are published on a triennial basis. Supplements and errata are issued throughout the cycle. Review the [current code cycle](#) here.

The 2010 codes are available online both on this website and on the submitting agencies websites:

Residential construction: California Department of Housing and Community Development, www.hcd.ca.gov

Schools Construction: California Department of General Services, Division of the State Architect, www.dgs.ca.gov/dsa

Access Compliance: California Department of General Services, Division of the State Architect, www.dgs.ca.gov/dsa/Programs/progAccess

Hospitals and clinic construction: California Office of Statewide Health Planning and Development, <http://www.oshpd.ca.gov/>

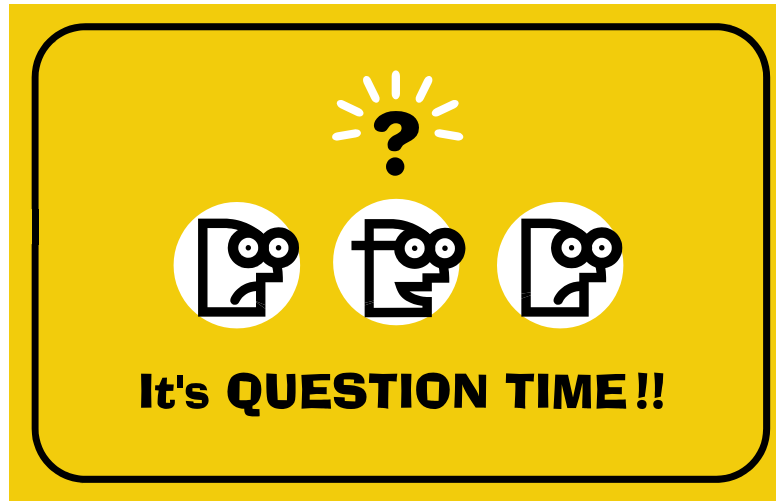
Fire and Panic Safety: Office of the State Fire Marshal, <http://www.osfm.fire.ca.gov/>

Need to purchase copies of the code?

FEATURED LINKS

- ▶ CALGreen
- ▶ Bulletins
- ▶ Notices
- ▶ SB1473
- ▶ Feedback
- ▶ Related Sites
- ▶ Database
- ▶ Archives

Thank you...



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